P7F-C/SAS

Cost Effective UP Storage Server Solution

Integrating the latest technologies and leading-edge architecture, the P7F-C/SAS serverboard supports various processors in LGA1156 package, DDR3 and PCI-E expansion slots, as well as mass storage and dual LAN ports for cost-effective storage and applications, meeting the demands of different customers.

Processor / System Bus	1 x Socket 1156 Quad/Dual Core Intel Xeon 3400 series Server Processor Quad Core Intel Core i7-800 series Desktop Processor★ Quad/Dual Core Intel Core i5/ i3 series Desktop Processor★ ★Refer to www.asus.com for CPU Support List
Core Logic	Intel® 3420 PCH
Form Factor	ATX 12" x 9.6" Rack Ready (Rack and Pedestal dual use)
ASUS Features	ASWM2.0 FAN speed control
Memory	**Total Slots:** 6 (2-channel) RDIMM; 4UDIMM (Desktop processors and Xeon L3406 don't support RDIMM) **Capacity:** Maximum up to 32GB (RDIMM); Maximum up to 16GB (UDIMM) **Memory Type:** DDR3 1066/1333 ECC UDIMM; DDR3 800/1066/1333 RDIMM (Refer to www.asus.com for detail memory AVL & non ECC UDIMM vs CPU support list) **Memory Size:** 1GB 2GB 4GB 8GB (RDIMM)/ 1 GB, 2GB, 4GB (UDIMM)
Expansion Slots (follow SSI Location #)	**Total PCI/PCI-X/PCI-E Slots:** 6 **Slot Location 1:** 1 * PCI 32bit/33 MHz **Slot Location 2:** 1 * PCI 32bit/33 MHz **Slot Location 3:** 1 * PCI 32bit/33 MHz **Slot Location 4:** 1 * PCI-E x16 (x8 link) **Slot Location 5:** 1 * PCI 32bit/33 MHz **Slot Location 6:** 1 * PCI-E x16 (x8 link)
Storage	**SATA Controller:** Intel® 3420: 6* SATA2 300MB/s ports - Intel Matrix Storage utility supports software RAID 0, 1, 10 & 5(Windows) **SAS Controller:** LSI 1068E 8-port SAS controller: LSI® Integrated RAID 0, 1, 1E support
Networking	**LAN:** 2 * Marvell® 8056 PCI-E GbE LAN
Graphic	**VGA:** XGI® Z9s DDR2 64MB
Onboard I/O Connectors	1 x PSU Connector 24-pin ATX power connector + 8-pin ATX 12V power connector ※ 3 x USB Connectors (support 5 USB ports) (One for internal Type A USB connector) 1 x Fan Header 5* 4pin 1 x Chassis Intruder 1x Serial Port Header
Rear I/O Connectors	1 x External Serial Port 2 x External USB Port

DC diskontcomputer.com GmbH
Traunuferstrasse 110
4052 Ansfelden, Austria

:: Seite 2 von 3 :: Datenblatt zum Produkt Asus ASUS P7F-C/SAS Socket1156 Intel3420 ATX XEON3400/i5/i7series XGIZ9s DDR3 incl. LSI1068e mit DC# 539273

	1 x VGA Port 2 x RJ-45 1 x PS/2 KB/Mouse
Management Solution	**Software:** ASWM2.0
Monitoring	CPU Temperature FAN RPM
EMI	US (FCC, CFR47 Part 15, Class B) Europe (CE, EN55022 & EN55024) Australia (C-TICK)
Environment	**Operation temperature:** 10℃ ~ 35℃ / Non operation temperature: -40℃ ~ 70℃ **Non operation humidity:** 20% ~ 90% (Non condensing)
Accessories	Standard Gift Box Pack (3pcs per Carton): 1 x User Guide 1 x Support CD 1 x I/O shield 6 x SATA Cable 1 x Plate for LGA1156 Standard Bulk Pack (10pcs per Carton): 1 x User Guide 1 x Support CD 1 x I/O shield 1 x Plate for LGA 1156
Product SKUs	Standard Gift Box Pack Standard Bulk Pack
Note	♯Refer to ASUS Server AVL for latest update ※24 + 4 Pin Power Supply Ssupported

Cost Effective UP Storage Server Solution

Leading-edge Architecture

This motherboard supports the latest Intel® Xeon processor 3400 series, Intel® desktop processor Core i7-800 series, Intel® desktop processor Core i5-700 series in LGA 1156 package, which has memory and PCI Express controller integrated to support 2-channel (6 DIMMs) DDR3 memory and 16 PCI Express 2.0 lanes. The new platform architecture has significant improvement in performance and the processor is one of the most powerful and energy efficient CPU in the world.

Most Cost-Conscious SAS Solution

P7F-C/SAS supports 6 SATA2 300MB/s ports and additional 8 SAS 300MB/s ports from LSI 1068E, offering cost-effective while reliable SAS storage solution and RAID 0, 1, 1E for users to protect their valuable data.

Dual Enterprise-class LAN Ports

P7F-C/SAS is built with dual GbE LAN ports to enhance networking transfer rate around 2 times faster than the Single-LAN Platform. With teaming enabled, two LAN ports can act like a single LAN with 2 times bandwidth. In addition, the network failover capability gives you fault tolerance function to minimize system down time. The teaming & failover function enable higher bandwidth aggregation and reliable network connection.

2 PCI-E x8 & 4 PCI slot for Legacy Devices

The P7F-C series serverboards are equipped with 6 expansion slots, with 2 support PCI-E x16 (x8 link) and 4 support PCI interface. The design meets general and specific needs. The flexible & scalable expansion slots are especially geared for the special-purpose servers. It caters to server appliance market which the board targets on.

Support DDR3 UDIMM/ RDIMM

P7F-C/SAS supports UDIMM and RDIMM DDR3 memory that features data transfer rates of 1333/1066 MHz to meet the higher bandwidth requirements of server applications. The 2-channel DDR3 architecture boosts system performance, eliminating bottlenecks. Furthermore, the supply voltage for the memory is reduced from 1.8 V for DDR2 to just 1.5V for DDR3. This voltage reduction limits the power consumption and heat generation of DDR3 which makes it an ideal memory solution.

- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.